

3 May 1974

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In accordance with the protocol of the conference of the group of experts of the U.S.S.R. in the U.S.A. in the field of science policy, 19-23 November 1973, since last November the working group in the U.S.S.R. has made a thorough study of the list indicated in the program and has made up tables on higher education in the U.S.S.R., which will subsequently be filled in with the appropriate data from government statistics.

We hope that after receiving our material you will submit remarks about refining and going into more detail on the various aspects of the tables.

On our side, after having received your materials, we will indicate our desires for data which we would like to receive from the American side.

As a result of this exchange, we feel that it would be possible to work out a final version of the tables, which would form the basis for our future work.

Remembering your proposal, we could send to the U.S.A. a specialist from Moscow State University for a period of three or four months to study the theme of "Training and utilization of scientific and engineering/technical personnel" indicated in the program of scientific and technical cooperation between the U.S.S.R. and the U.S.A. in the field of science policy.

I would ask you to indicate whether or not this proposal is acceptable.

Sincerely yours,

V. Krutov [s]
Professor V.I. Krutov

A list of the tables submitted follows:

- Table 1 - Distribution of higher educational institutions by types of educational institution
- Table 2 - Numbers of students of higher educational institutions by type of program
- Table 3 - Admissions to higher and secondary specialized institutions by type of program
- Table 4 - Number of students of higher educational institutions by field groupings
- Table 5 - Graduation of specialists from higher educational institutions by field groupings
- Table 6 - Composition of women among students of higher educational institutions
- Table 7 - Distribution of students of higher educational institutions by nationality of union and autonomous republics and autonomous oblasts
- Table 8 - Distribution of secondary specialized schools by type of school
- Table 9 - Number of students of secondary specialized schools by type of program
- Table 10 - Number of students of secondary specialized schools by field groupings
- Table 11 - Graduation of specialists from secondary specialized schools by field groupings
- Table 12 - Proportion of women among students of secondary specialized schools
- Table 13 - Distribution of students of secondary specialized schools by nationality of union and autonomous republics and autonomous oblasts
- Table 14 - Numbers of graduate students enrolled and graduated
- Table 15 - Distribution of graduate students by scientific field
- Table 16 - Distribution of scientific-pedagogical personnel by scientific field
- Table 17 - Average annual number of manual and office workers, number of specialists with higher and secondary specialized education by branch of the national economy

Table No. 1

DISTRIBUTION OF HIGHER EDUCATIONAL INSTITUTIONS BY
TYPES OF EDUCATIONAL INSTITUTION

(at beginning of school year)

	:1960/61	:1965/66	:1970/71	:1972/73
Total number of educational institutions				
including educational institutions for:				
industry and construction				
transportation and communications				
agriculture				
economics and law				
health, physical education and sports				
education				
including:				
universities				
art and cinematography				

Table No. 2

NUMBERS OF STUDENTS OF HIGHER EDUCATIONAL INSTITUTIONS
BY TYPE OF PROGRAM

(at beginning of school year;
in thousands)

Year	:	Total number	:	Including those studying in			:
				day programs	evening programs	correspondence	
	:	of students	:				:
1960/61							
1965/66							
1970/71							
1972/73							

Table No. 3

ADMISSIONS TO HIGHER AND SECONDARY SPECIALIZED
INSTITUTIONS BY TYPE OF PROGRAM

(in thousands)

	: 1960	: 1965	: 1970	: 1972
Students admitted into higher educational institutions including:				
day programs				
evening programs				
correspondence programs				
Students admitted into secondary specialized schools including:				
day programs				
evening programs				
correspondence programs				

Table No. 4

NUMBER OF STUDENTS OF HIGHER EDUCATIONAL INSTITUTIONS
BY FIELD GROUPINGS

(at beginning of school year; in thousands)

: 1960/61 : 1965/66 : 1970/71 : 1972/73

TOTAL

including, by field:

geology and exploration for
deposits of useful minerals

development of deposits of
useful minerals

power

metallurgy

machine and instrument making

electronic technology, electric
instrument making and automa-
tion

radio technology and communi-
cations

chemical technology

forestry engineering and tech-
nology of wood, pulp and paper

food product technology

consumer goods technology

construction

geodesy and cartography

hydrology and meteorology

agriculture and forestry

transportation

economics

law

-2-

: 1960/61 : 1965/66 : 1970/71 : 1972/73

health and physical education

specialized fields of universi-
ties

specialized fields of pedago-
gical institutes and higher
educational institutions of cul-
ture

art

Table No. 5

GRADUATION OF SPECIALISTS FROM HIGHER EDUCATIONAL
INSTITUTIONS BY FIELD GROUPINGS

(in thousands)

	: 1960	: 1965	: 1970	: 1972
TOTAL				
including, by field:				
geology and exploration for deposits of useful minerals				
development of deposits of useful minerals				
power				
metallurgy				
machine and instrument making				
electronic technology, electric instrument making				
radio technology and communications				
chemical technology				
forestry engineering and technology of wood, pulp and paper				
food product technology				
consumer goods technology				
construction				
geodesy and cartography				
hydrology and meteorology				
agriculture and forestry				
transportation				
economics				
law				
health and physical education				

: 1960 : 1965 : 1970 : 1972

specialized fields of universities

specialized fields of pedagogical
institutes and higher educational
institutions of culture

art

Table No. 6

COMPOSITION OF WOMEN AMONG STUDENTS OF HIGHER EDUCATIONAL
INSTITUTIONS

(at beginning of school year)

: 1960/61 : 1965/66 : 1970/71 : 1972/73

Percentage of women among higher educational institutions

Including educational institutions for:

industry and construction,
transportation and communications

agriculture

economics and law

health, physical education and
sports

education, art and cinematography

Table No. 7

DISTRIBUTION OF STUDENTS OF HIGHER EDUCATIONAL INSTITUTIONS BY
NATIONALITY OF UNION AND AUTONOMOUS REPUBLICS AND AUTONOMOUS OBLASTS

(at beginning of school year, in thousands)				
	: 1960/61	: 1965/66	: 1970/71	: 1972/73
1	2	3	4	5
TOTAL				
including by nationality:				
Russians				
Ukrainians				
Belorussians				
Uzbeks				
Kazakhs				
Georgians				
Azerbaydzhanies				
Lithuanians				
Moldavians				
Latvians				
Kirgizians				
Tadzhiks				
Armenians				
Turkmenians				
Estonians				
Abkhazians				
Balkartsians				
Bashkirs				
Buryats				
Ingushians				
Kabardinians				

	1	2	3	4	5
Kalmyks					
Karakalpaks					
Karelians					
Komis					
Marians					
Mordovians					
peoples of Dagestan					
Osetins					
Tatars					
Duvinians					
Udmurts					
Chechens					
Chuvashians					
Yakuts					
Adygeytians					
Altays					
Jews					
Karachaevs					
Khakasians					
Cherkesians					

Table No. 8

DISTRIBUTION OF SECONDARY SPECIALIZED SCHOOLS BY TYPE OF SCHOOL

(at beginning of school year)

: 1960/61 : 1965/66 : 1970/71 : 1972/73

Total number of schools

Including schools for:

industry and construction

transportation and communications

agriculture

economics and law

health, physical education
and sports

education

art and cinematography

Table No. 9

NUMBER OF STUDENTS OF SECONDARY SPECIALIZED
SCHOOLS BY TYPE OF PROGRAM

(at beginning of school year; in thousands)

Years	:	Total numbers	:	Including those in				
	:	of students	:	day programs	:	evening programs	:	correspondence
	:		:		:		:	programs

1960/61

1965/66

1970/71

1972/73

Table No. 10

NUMBER OF STUDENTS OF SECONDARY SPECIALIZED SCHOOLS BY
FIELD GROUPINGS

(at beginning of school year; in thousands)

: 1960/61 : 1965/66 : 1970/71 : 1972/73

TOTAL

including, by field:

geology and exploration
for deposits of useful minerals

development of deposits of
useful minerals

power metallurgy

machine and instrument making

making of electrical machines and
instruments

radio technology and communica-
tions

chemical technology

forestry engineering and technology
of wood, pulp and paper

food product technology

consumer goods technology

construction

geodesy and cartography

hydrology and meteorology

agriculture

transportation

economics

health and physical education

education

art

Table No. 11

GRADUATION OF SPECIALISTS FROM SECONDARY SPECIALIZED
SCHOOLS BY FIELD GROUPINGS

	(in thousands)			
	: 1960	: 1965	: 1970	: 1972
TOTAL				
including, by field:				
geology and exploration for deposits of useful minerals				
development of deposits of useful minerals				
power metallurgy				
machine and instrument making				
making of electrical machines and instruments				
radio technology and communica- tions				
chemical technology				
forestry engineering and technology of wood, pulp and paper				
food product technology				
consumer goods technology				
construction				
geodesy and cartography				
hydrology and meteorology				
agriculture				
transportation				
economics				
health and physical education				
education				
art				

Table No. 12

PROPORTION OF WOMEN AMONG STUDENTS OF SECONDARY SPECIALIZED SCHOOLS

(at beginning of school year)

: 1960/61 : 1965/66 : 1970/71 : 1972/73

Percentage of women among higher
educational institutions

Including educational institutions for:

industry and construction,
transportation and communications

agriculture

economics and law

health, physical education and
sports

education, art and cinematography

Table No. 13

DISTRIBUTION OF STUDENTS OF SECONDARY SPECIALIZED SCHOOLS BY NATIONALITY OF
UNION AND AUTONOMOUS REPUBLICS AND AUTONOMOUS OBLASTS

(at beginning of school year, in thousands)

: 1960/61 : 1965/66 : 1970/71 : 1972/73

1

2

3

4

5

TOTAL

including by nationality:

Russians

Ukrainians

Belorussians

Uzbeks

Kazakhs

Georgians

Azerbaydzhanies

Lithuanians

Moldavians

Latvians

Kirgizians

Tadzhiks

Armenians

Turkmenians

Estonians

Abkhazians

Balkartsians

Bashkirs

Buryats

Ingushians

Kabardinians

1

2

3

4

5

Kalmyks

Karakalpaks

Karelians

Komis

Marians

Mordovians

peoples of Dagestan

Osetins

Tatars

Duvinians

Udmurts

Chechens

Chuvashians

Yakuts

Adygeytians

Altays

Jews

Karachaevs

Khakasians

Cherkesians

Table No. 14

NUMBERS OF GRADUATE STUDENTS ENROLLED AND GRADUATED

	1960	1965	1970	1972
<u>Total number of graduate students</u> (at end of year)				
Including those studying:				
And not working at the same time				
While working at the same time				
At scientific institutions (excluding higher educational institutions)				
Including those studying:				
And not working at the same time				
While working at the same time				
At higher educational institutions				
Including those studying:				
And not working at the same time				
While working at the same time				
<u>Total graduated per year</u>				
From scientific institutions (excluding higher educational institutions)				
Including those studying:				
And not working at the same time				
While working at the same time				
From higher educational institutions				
Including those studying:				
And not working at the same time				
While working at the same time				

Table No. 15

DISTRIBUTION OF GRADUATE STUDENTS BY SCIENTIFIC FIELD

	Number of graduate students		Including those studying in:			
	1960	1965	1960	1965	1960	1970
			scientific institutions (excluding higher educational institutions)		higher educational institutions	
TOTAL						
Including the following branches of science:						
physical and mathematical						
chemical						
biological						
geological and mineralogical						
technical						
agriculture and veterinary						
historical and philosophical						
economical						
philological						
geographical						
legal						
pedagogical						
medical and pharmacological						
art history						

architecture
psychological
operations

Table No. 16

DISTRIBUTION OF SCIENTIFIC-PEDAGOGICAL PERSONNEL BY SCIENTIFIC FIELD

	1960	1970
Number of scientific-pedagogical personnel		
including the following branches of science:		
physical and mathematical		
chemical		
biological		
geological and mineralogical		
technical		
agricultural and veterinary		
historical and philosophical		
economical		
philological		
geographical		
legal		
pedagogical		
medical and pharmacological		
art history		
architecture		
others		

Table No. 17

AVERAGE ANNUAL NUMBER OF MANUAL AND OFFICE WORKERS, NUMBER OF SPECIALISTS WITH HIGHER AND SECONDARY SPECIALIZED EDUCATION BY BRANCH OF THE NATIONAL ECONOMY

	1960					1965					1970				
	Average annual number of manual and office workers	: Total	: those with a higher specialized education	: those with a secondary specialized education	: those with a tertiary specialized education	Average annual number of manual and office workers	: Total	: those with a higher specialized education	: those with a secondary specialized education	: those with a tertiary specialized education	Average annual number of manual and office workers	: Total	: those with a higher specialized education	: those with a secondary specialized education	: those with a tertiary specialized education
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
TOTAL															
including:															
industrial organizations															
agriculture															
transportation															
communications organizations															
construction organizations															
trade, public food															
dispensary, materials															
and machinery supply, sales and procurement organizations															
health, physical education and social security organizations															
educational and cultural organizations															

scientific and science service
organizations
credit and government
insurance organizations
administration units
for governmental and econo-
mic management bodies and
for management bodies of
cooperative and social organi-
zations

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Science Policy

Graduate School of Public Affairs

15 February 1974

Dr. V. I. Krutov
Chairman of the Scientific and
Technological Council
Ministry of Education
Moscow, USSR

Dear Dr. Krutov:

Since our meeting in Washington last November, my colleagues and I in the working group on educational and manpower statistics have been compiling the dummy tables we agreed to exchange in order to indicate

- the types of data concerning the U.S. that we would be able to provide, and
- the types of data concerning the U.S.S.R. that we hope you could provide.

We are paying particular attention to defining the column and row headings and indicating the degree of detail available on such characteristics as scientific specialty, employment sector, or work function so you will be able to interpret the data when the cells of the tables are filled in. We are making reasonably good progress and the whole working group met last month to review the material prepared by Robert Cain and Murray Feshback who have been coordinating the preparatory work. We expect to have the materials ready to mail to you about the end of February.

I hope that on your side you too are making good progress and that we can expect in the near future to receive similar materials from you.

I am sending a copy of this letter to Dr. Mikulinsky so he will be informed, and to both of you I send our greetings and good wishes.

Sincerely,

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